

MISCELLANEOUS PAPERS

Centre for Entomological Studies Ankara

No 165

7 March 2017

ISSN 1015-8235

<http://zoobank.org/References/46161AA8-97AE-44E1-B007-8DAECE96E24F>

Description of a new species of the genus *Pleurota* Hbn. from East Turkey (*Lepidoptera*, *Oecophoridae*)

Muhabbet Kemal¹ Ahmet Ömer Koçak

Abstract: Description of a new species of the genus *Pleurota* Hbn. from East Turkey (*Lepidoptera*, *Oecophoridae*). Cent. ent. Stud., Misc.Pap. 165: 1-3, 3 figs.

This paper deals with the description of a new species, *Pleurota* (s.str.) *uygar* sp.n. (*Oecophoridae*) from East Turkey.

Key words: *Lepidoptera*, *Oecophoridae*, *Pleurota uygar*, description, Turkey, Van Province.

This paper deals with a new species of the genus *Pleurota* Hübner from East Turkey, Van Province.

The genus is currently divided into two subgenera, and represented by 21 species in Turkey. Their brief synonymic and distributional information are given below:²

***Pleurota (Protasis) punctella* (Costa,[1836])** Synonym(s): *punctella* Costa,[1846]; *monostictella* Heydenreich,1851 Provincial codes of Turkey: 16

***Pleurota (s.str.) amaniella* Mann,1873** Synonym(s): *amaniella* Mann,1873 Provincial codes of Turkey: 33

***Pleurota (s.str.) aristella* (Linnaeus,1767)** Synonym(s): *aristella* Linnaeus,1767; *corniculata* Villers,1789; *cornicella* Villers,1789; *schlaegerella* Zeller,1847; *argentistrigella* Mann,1854; *cyrniella* Mann,1855 Provincial codes of Turkey:16 39 45

***Pleurota (s.str.) armeniella* Caradja,1920** Synonym(s): *armeniella* Caradja,1920 Provincial codes of Turkey: 76

***Pleurota (s.str.) christophi* Lvovsky,1992** Synonym(s): *christophi* Lvovsky,1992 Provincial codes of Turkey: 76

***Pleurota (s.str.) contristatella* Mann,1867** Synonym(s): *contristatella* Mann,1867 Provincial codes of Turkey: 05 42 46

***Pleurota (s.str.) ericella* (Duponchel,1839)** Synonym(s): *ericella* Duponchel,1839; *imitatrix* Herrich-Schäffer,1854; *imitatricella* Herrich-Schäffer,1862; *aeonella* Lhomme,1949 Provincial codes of Turkey: 42

***Pleurota (s.str.) eximia* Lederer,1861** Synonym(s): *eximia* Lederer,1861; *galaticella* Staudinger,1880 Provincial codes of Turkey: 05 06 33 42 51 65 70 76

***Pleurota (s.str.) generosella* Rebel,1900** Synonym(s): *generosella* Rebel,1900; *alexandrina* Meyrick,1935 Provincial codes of Turkey: 21 46

¹ Asst. Prof. Dr. Muhabbet Kemal, Yüzüncü Yıl University, Faculty of Science, Dept. of Biology, Campus, Van / Turkey.

e-mail: muhabbet_kemal@yahoo.com.tr

co-author: Prof. em. Dr. Ahmet Ömer Koçak, c/o Yüzüncü Yıl University, Faculty of Science, Dept. of Biology, Campus, Van / Turkey.

e-mail: cesa_tr@yahoo.com.tr

² This information is extracted from Info-system of the Cesa. <http://www.cesa-tr.org/Infos.htm>

- Pleurota (s.str.) issicella* Staudinger,1880** Synonym(s): *issicella* Staudinger,1880 Provincial codes of Turkey: 06 33 65
- Pleurota (s.str.) metricella* (Zeller,1847)** Synonym(s): *metricella* Zeller,1847 Provincial codes of Turkey: 05 06 17 38 42 46 50 65 71 76
- Pleurota (s.str.) planella* (Staudinger,1859)** Synonym(s): *planella* Staudinger,1859; *sublustrella* Mann,1872 Provincial codes of Turkey: 16
- Pleurota (s.str.) proteella* Staudinger,1880** Synonym(s): *proteella* Staudinger,1880; *malatya* H.Back,1973; *atrostriata* Lvovsky,1992 Provincial codes of Turkey: 05 06 44 56 65 71
- Pleurota (s.str.) pungitiella* Herrich-Schäffer,[1854]** Synonym(s): *pungitiella* Herrich-Schäffer,[1854] Provincial codes of Turkey: 05 06 42 71 76
- Pleurota (s.str.) pyropella* ([Denis & Schiffermüller],1775)** Synonym(s): *pyropella* [Denis & Schiffermüller],1775 Provincial codes of Turkey: 05 06 10 13 16 21 31 40 42 44 46 51 56 65 73 75
- Pleurota (s.str.) simplex* Staudinger,1880** Synonym(s): *simplex* Staudinger,1880
- Pleurota (s.str.) sparella* (Lederer,1855)** Synonym(s): *sparella* Lederer,1855; *karmeliella* Amsel,1935 Provincial codes of Turkey: 46
- Pleurota (s.str.) subpyropella* Staudinger,1880** Synonym(s): *subpyropella* Staudinger,1880 Provincial codes of Turkey: 05 06 42 65 76
- Pleurota (s.str.) syriaca* Staudinger,1880** Synonym(s): *syriaca* Staudinger,1880 Provincial codes of Turkey: 46 76
- Pleurota (s.str.) tristatella* Staudinger,1871** Synonym(s): *tristatella* Staudinger,1871 Provincial codes of Turkey: 05 06
- Pleurota (s.str.) tristictella* Seebold,1898** Synonym(s): *tristictella* Seebold,1898 Provincial codes of Turkey: 33
- Pleurota (s.str.) uygar* sp.n.** - Provincial codes of Turkey: 65 (see below)

Although it contains some uncertainties and lacks, Back's (1973) dissertation on the *Pleurota* is still the most important reference work. Lvovsky (2003) published an annotated list of the *Oecophoridae* of Russia and the adjacent countries. There is still no publication particularly on the *Oecophoridae* of Turkey. In this family the genus *Pleurota* Hbn. is one of the most striking group. Its members are commonly found by days and by nights especially in the mountain steppe in the spring and the summer seasons. However, identification them at the specific level, by using Back's dissertation, is not easy, even if a genitalic preparat is made.

Within the frame of the investigations on the Lepidoptera fauna of Van Province (East Turkey), the authors recorded during their field studies an unknown *Pleurota* species from the districts, Bahçesaray (Mukus valley), Çatak (Darboğaz), and Tuşba (Ağartı) (Koçak & Kemal, 2012). The description of this species is given below:

***Pleurota (s.str.) uygar* sp. n. (Figs. 1-3)**

<http://zoobank.org/NomenclaturalActs/B238EC9F-8B05-4DC2-B02E-7519C4CD0C31>

Holotype ♂. Forewing. 10mm, wingspan 22mm.

Upperside: Forewing bi-coloured, costal and median area creamy-yellow, the rest greyish-brown; subcostal area darker, submedian, cubital and anal veins covered by greyish-brown scales. Ciliae grey. Hindwing: Brown, major veins darker, distinct. Ciliae longer at anal part, dark brown.

Male genitalia: Uncus short, curved and pointed. Gnathos very large, somewhat tongue-shaped, upper and terminal areas distinctly covered by numerous denticles. Middle part of clasper wide, toward end clearly narrowed. Upper edge at base and midst of clasper strongly convex. Labis very large, reaches to middle of clasper. Its border serrate with irregular and unequal spines. Saccus distinct, well-chitinised. Anellus well-developed, longer than clasper. Its branches stronger and usually straight, their tips like crochet needle. Vinculum and saccus intensely chitinised. Aedeagus slender, equally curved; its basal part slightly thicker.

Paratypes 3♂. Forewing: 9-10mm, wingspan 20-22mm. Wing colouration, markings, and the male genitalia are same with those of the holotype.

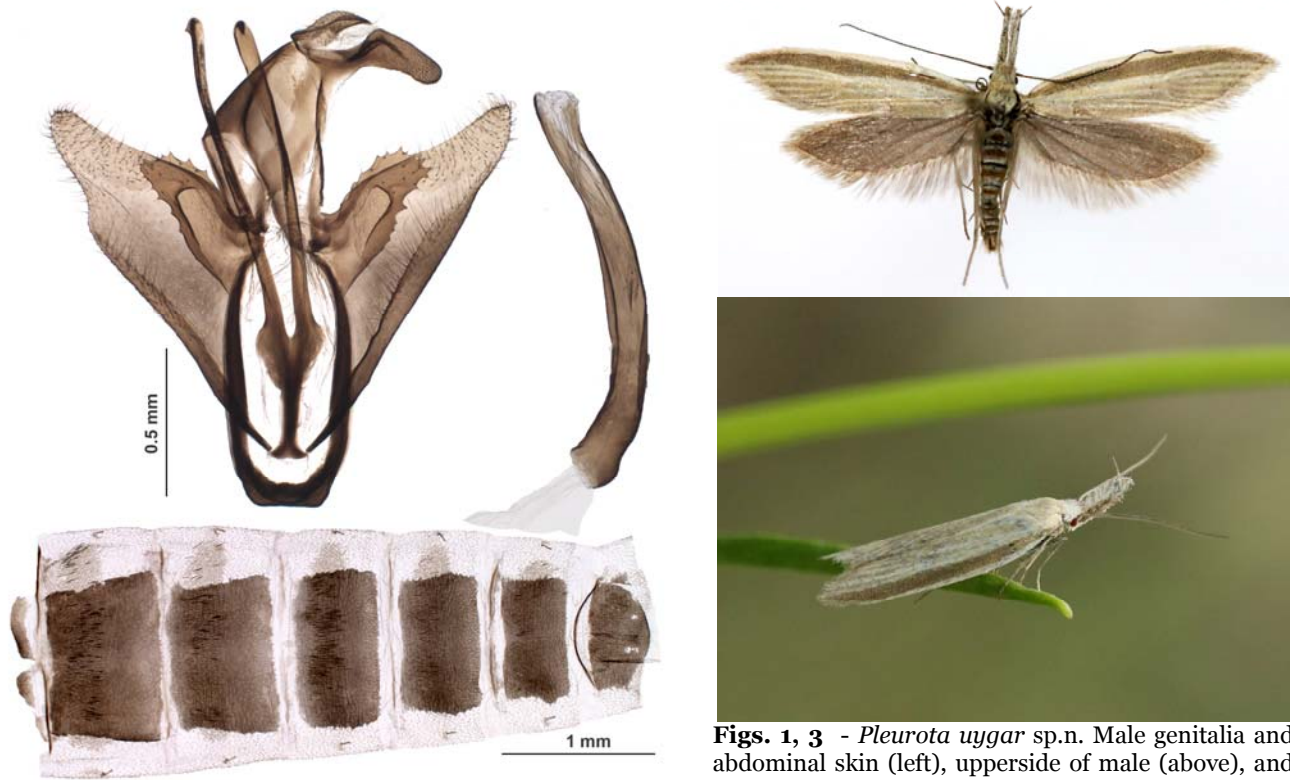
Female genitalia: Unknown.

Material studied: Holotype ♂. East Turkey, Van Province, Bahcesaray, Upper Mukus valley 1850m (65Am3), 24 6 2016, GP2610♂. Paratypes (3♂♂): 2♂. Van Province, Tuşba, Ağartı 1950m (65Np2) 25 5 2014, GP2049♂, GP2081♂; 1♂. Van Province, Çatak, Darboğaz 2050m (65Dg), 8 6 2015. M.Kemal & A.Koçak leg. Biorepository: CESA, <http://grbio.org/cool/eaaz-xyfc>

This new species is somewhat near to *Pleurota metricella* (Zeller), but it is easily distinguishable from it and other species by the peculiar shape of labis, also gnathos, anellus, uncus, and clasper. Striated markings on the upperside of forewing is also characteristic for this species.

Habitat: Tragacanthic and malacophyllous mountain steppes. **Generation:** Univoltine. **Flight period:** May-June. **Flight time:** Preferably nocturnal. **Distribution:** Apparently confined to Van Lake Basin.

Etymology: In Turkish “Uygar” means civilized, having a high state of culture and social development, what is most needed today. The root of the word “uygar” is “Uighur”, which is a name of a nation based on a long history. Currently, the people is represented under the autonomous region of NW of China.



Figs. 1, 3 - *Pleurota uygar* sp.n. Male genitalia and abdominal skin (left), upperside of male (above), and in nature (holotype) on 24 6 2016 (below). M. Kemal (Cesa)

References

- Back, H.E.**, 1973, *Untersuchungen über die Systematik und Zoogeographie der Gattung Pleurota (Lepidoptera, Oecophoridae)*. 413 pp., figs. Saarbrücken.
- Koçak, A.Ö. & M. Kemal**, 2012, List of two thousand species of pterygot insects in Van Province (East Turkey). *Cesa News* 81: 2-86, 37 figs.
- Lvovsky, A.L.**, 2003, Check-list of the broad-winged moths (Oecophoridae s.l.) of Russia and adjacent countries. *Nota lepid.* 25 (4): 213-220.

Contents:

Kemal, M. & A.Ö. Koçak, Description of a new species of the genus *Pleurota* Hbn. from East Turkey (*Lepidoptera*, *Oecophoridae*), p. 1 - **Editorial**, p. 4.

MISCELLANEOUS PAPERS**ISSN 1015-8235**

Miscellaneous Papers is a peer reviewed online serial of the Centre for Entomological Studies Ankara, established in 1989. It appears at irregular interval in a year, as PDF format and includes original articles of the research workers of the Centre, regarding on various subjects on Entomology (taxonomy, nomenclature, checklist, fauna, biodiversity, distribution, biogeography, ecology, insect-plant interactions, bionomy, and behaviour).

The CESA is a non-profit group, no royalties will be paid to authors of contributions. Papers accepted become the copyright of the related serial.

Miscellaneous Papers is archived online at "Internet Archive", in accordance with the publication rules of the ICZN. It is an open-access serial, distributed under the terms of the "Creative Commons Attribution License", which permits free use, and distribution in any medium, provided the original author(s) and source are credited.

Centre for Entomological Studies Ankara



(A scientific Consortium)

(co-operation of research workers for pure-scientific, not commercial purpose)

Web Page of the Cesa: <http://www.cesa-tr.org/>

Scientific Serials: Priamus & Priamus Supplement (print and online versions) (ISSN 1015-8243)³, Miscellaneous Papers (print and online versions) (ISSN 1015-8235)⁴, Memoirs (print and online versions) (ISSN-8227)⁵, DVD Films⁶, Iconographia Insectorum⁷ (online), Cesa Publications on African Lepidoptera (online)⁸, Cesa News (online)⁹, Cesa Books (online)¹⁰

Owners / Sahipleri - Editors / Yayıncılar: Prof. em. Dr. Ahmet Ömer Koçak (c/o Yüzyüncü Yıl University, Van, Turkey), Asst. Prof. Dr. Muhabbet Kemal Koçak (c/o Yüzyüncü Yıl University, Van, Turkey).

Editorial Board of all Scientific Serials of the CESA / Bütün Bilimsel Yayınların Yayın Kurulu: Insecta, taxonomy, nomenclature, ecology, faunistics: Prof. Dr. Ahmet Ömer Koçak (Yüzyüncü Yıl Üniversitesi, Turkey), Asst. Prof. Dr. Muhabbet Kemal Koçak (Yüzyüncü Yıl University, Turkey).

Chief referees of all Scientific Serials of the CESA: Prof. em. Dr. Ahmet Ömer Koçak & Asst. Prof. Dr. Muhabbet Kemal Koçak: Insecta, taxonomy, nomenclature, fauna, ecology, catalogues, checklists of the Old World.

Expert referees according to the subject areas: Dr. Peter Huemer (Austria): Gelechiidae, and some Microlepidoptera groups in Palaearctic (Lepidoptera). Dr. J. B. Heppner (U.S.A.): Microlepidoptera of Nearctic and Neotropical. Dr. G. Baldizzone (Italy): Coleophoridae (Lepidoptera). Dr. V. Korneyev (Ukraine): Tephritidae, Pyrgotidae, Ulidiidae (Diptera). Prof. Dr. Y.G. Verves (Ukraine): Sarcophagidae (Diptera). Dr. Daniel Burckhardt (Switzerland): Psyllidae (Homoptera). Prof. Dr. E. Heiss (Austria): Hemiptera. Dr. R. Ehrmann (Germany): Mantodea. Prof. Dr. Mustafa Ünal (Bolu, Turkey): Orthoptera. Prof. Dr. Hüseyin Özdikmen (Turkey): Coleoptera. Prof. Dr. Suat Kiyak (Turkey): Hemiptera, Hymenoptera (Cynipidae).

Plant taxonomy, flora and vegetation: Assoc. Prof. Dr. Murat Ünal, Asst. Prof. Dr. Mesut Pınar, (Yüzyüncü Yıl University, Van, Turkey).

Editorial policy: The submitted manuscript is evaluated by the Chief Editor and Referee. In case of need, the manuscript is sent to expert referees according to the subject areas.

ALL RIGHTS RESERVED

Correspondences should be addressed to: Prof. em. Dr. Ahmet Ömer Koçak, c/o Yüzyüncü Yıl University, Fen Fakültesi, Biyoloji Bölümü, Kampus, Van / Turkey. - e-mail: cesa_tr@yahoo.com.tr

All the serials of the Cesa are archived regularly by the Internet Archive (300 Funston Ave., San Francisco, CA 94118, U.S.A.),

in accordance with the rules of the International Codes of Zoological Nomenclature (ICZN)

<https://archive.org/>

and

Zoological Record,
Thomson Reuters,

Enterprise House, Innovation Way, Heslington, York, YO10 5NQ, United Kingdom

ts-emea-york.dcsadmins@thomson.com

³ <http://www.cesa-tr.org/Pri.htm>

⁴ <http://www.cesa-tr.org/Miscell.htm>

⁵ <http://www.cesa-tr.org/Memoirs.htm>

⁶ <http://www.cesa-tr.org/CDF.htm>

⁷ <http://www.cesa-tr.org/Icon.htm>

⁸ <http://www.cesa-tr.org/CPAL.htm>

⁹ <http://www.cesa-tr.org/Cesanews.htm>

¹⁰ <http://www.cesa-tr.org/Cesabooks.htm>